



From the INTERNATIONAL SEARCHING AUTHORITY

To: Victoria Sandberg Mueting, Raasch and Bebhardt, PA PO Box 581415 Minneapolis, MN 55458-1415

MUETING & PAASCH

NOTIFICATION OF TRANSMITTAL OF

The second of th	OR THE DECLARATION					
	(PCT Rule 44.1)					
		f Mailing conth/year)	31 JAN 2005			
Applicant's or agent's file reference 290.0004 023 290.0004 023	FOR F	URTHER ACTION	See paragraphs 1 and 4 below			
International application No. PCT/ US /0339950	International filing date (day/month/year) 16 December 2003 (16.12.2003)					
Applicant PURDUE RES. FOUNDATION						
The applicant is hereby notified that the international se	-	has been established a	and is transmitted herewith.			
Filing of amendments and statement under Article 1 The applicant is entitled, if he so wishes, to amend the		e international applica	ation (see Rule 46):			
When? The time limit for filing such amendments international search report.	is normally	two months from the		_		
Where? Directly to the International Bureau of WI	PO. 34, che	emin des Colombettes	2/28/05 REMINDER 3/31/05 ART 19/11/11	<u>_</u> _		
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35				SECE		
For more detailed instructions, see the notes on the	accompan	ying sheet.		ī)		
2. The applicant is hereby notified that no international set Article 17(2)(a) to that effect is transmitted herewith.	arch report	will be established and	d that the declaration under			
3. With regard to the protest against payment of (an) add	ditional fee	(s) under Rule 40.2, th	ne applicant is notified that:			
the protest together with the decision thereon has applicant's request to forward the texts of both the			-			
no decision has been made yet on the protest; the	•		-			
4. Reminders						
Shortly after 18 months from the priority date, the international applicant wishes to avoid or postpone publication, a notice of must reach the International Bureau as provided in Rules 90 b preparations for international publication.	f withdrawa	d of the international	application, or of the priority claim,			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.						
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.						
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.						
Name and mailing address of the ISA/US		Authorized officer	Maria I Wates			
Mail Stop PCT, Atm: ISA/US Commissioner for Patents		Jane Zara	7			
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. (703	3) 308-0196	٠		

Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

290.0004 023	r agent's file reference	FOR FURTHER ACTION	(Form PC below.	T/ISA/220) as well as, where applicable, item 5			
International a PCT/ US /033	application No. 39950	International filing date (day/month/year) 16 December 2003 (16.12.2003)		(Earliest) Priority Date (day/month/year) 16 December 2002 (16.12.2002)			
Applicant PURDUE RES. FOUNDATION							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.							
This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.							
a. W la D. W	the international search was Authority (Rule 23.1(b)). With regard to any nucleotide earch was carried out on the contained in the international filed together with the international subsequently to the furnished subsequently to the statement that the subsequental application as	unless otherwise indicated under the carried out on the basis of a translate and/or amino acid sequence disclassis of the sequence listing: all application in written form. Inational application in computer readily authority in written form. It is Authority in computer readable for a quently furnished written sequence in filed has been furnished.	his item. Ation of the osed in the dable form form.	basis of the international application in the international application furnished to this international application, the international application, the international application in the international application furnished to this international application in the international application in the international application in the international application furnished to this international application furnished to this international application furnished to this international application in the international application furnished to this international application in the internation in the inter			
2.	been furnished. Certain claims were found unsearchable (See Box I).						
3. With re	3. Unity of invention is lacking (See Box II).						
	the text is approved as submitted by the applicant.						
	the text has been established	by this Authority to read as follow	/s:				
5. With re		1, according to Rule 38.2(b), by thi		y as it appears in Box III. The applicant may, ort, submit comments to this Authority.			
6. The figu	are of the drawings to be put as suggested by the applicant because the applicant failed because this figure better ch	to suggest a figure.	No	None of the figures			

Form PCT/ISA/210 (first sheet) (July 1998)





International application No.

PCT/ US /0339950

	SIFICATION OF SUBJECT MATTER	1/02 21/04 ADIN 22/04					
IPC(7) : C12Q 1/68; C12P 19/34, C12N 15/88, C07H 21/02, 21/04, A01N 32/04 US CL : 435/6, 91.1, 91.31, 458; 536/24.31, 23.1, 24.5; 514/44							
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum documentation searched (classification system followed by classification symbols)							
U.S. : 4	35/6, 91.1, 91.31, 458; 536/24.31, 23.1, 24.5; 514/44						
							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)							
West, Dialog							
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.				
Y	ZHANG, C. et al., Use of circular permutation to as		1-27				
	packaging pRNA of bacteriophage 29, RNA, Vol. 3, pages 315-323, 1997, esp. abstract on p. 315, fig. 1 on p. 316, text on p. 317, fig. 3 on p. 320.						
Y	WADA, T. et al., Peptide ribonucleic acids (PRNA) of DNA recognition through borate ester formation,	1-27					
	2000, pages 6900-6910, esp. text on pp. 6900-6901,						
Y	US 6,448,083 B1 (LAROCCA et al) 10 Sept. 2002 (1-27					
Further	documents are listed in the continuation of Box C.	See patent family annex.					
* S	pecial categories of cited documents:	"T" later document published after the inte- date and not in conflict with the applic					
	defining the general state of the art which is not considered to be lar relevance	principle or theory underlying the inve	ntion				
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone					
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the considered to involve an inventive step					
•	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the	documents, such combination				
	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent family					
Date of the actual completion of the international search		Date of mailing of the international search report					
08 January 20	005 (08.01.2005)	91 JAN 2009					
Name and ma	ailing address of the ISA/US	Authorized officer Marie Water Jane Zara					
	I Stop PCT, Attn: ISA/US nmissioner for Patents	Jane Zara					
P.C	. Box 1450	Telephone No. (703) 308-0196					
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230							

Form PCT/ISA/210 (second sheet) (July 1998)





NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (July 1998; reprint April 2002)